CT 1516

Service Manual

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CAUTION
Before servicing the chassis, read the "Safety Precaution", "X-Ray Radiation Precaution" and "Product Safety Notice" on Page 2 of this manual."

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The normal value of the high voltage of this receiver is 25 KV at zero beam current (minimum brightness) under 220V AC power source. The high voltage must not, under any circumstances, exceed 30 KV.
2. Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
3. The primary source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
4. Some parts in this receiver have special safety — related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING: Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver.

The following are the necessary precautions to be observed before servicing this chassis.

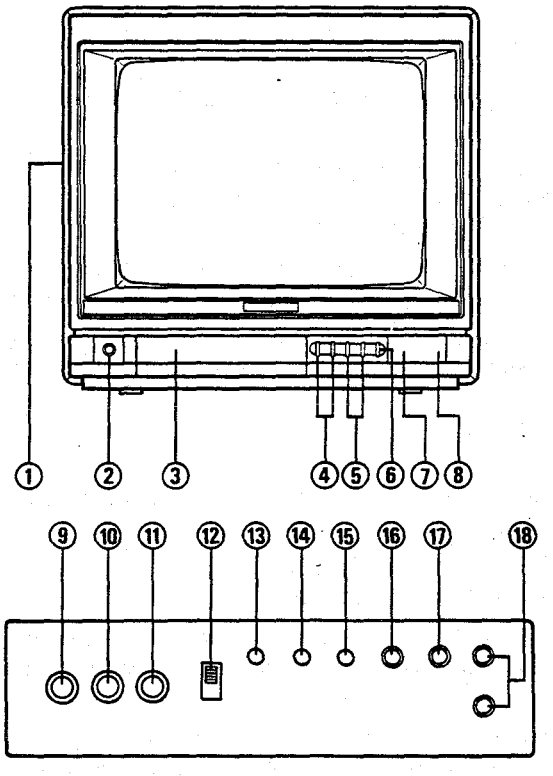
1. Since the power supply circuit of this receiver is directly connected to the AC power line, an isolation transformer should be used during any dynamic service to avoid possible shock hazard.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
4. When replacing parts or circuit boards, disconnect the power cord.
5. When replacing a high wattage resistor (oxide metal film resistor) on circuit board, keep the resistor 10 mm (1/2 in.) away from circuit board.
6. Connection wires must be kept away from components with high voltage or high temperature.
7. If any fuse in this TV receiver is blown, replace it with the FUSE specified in the chassis parts list.
8. The receiver is designed to operate with 220V (50Hz) AC mains.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-RAY RADIATION protection afforded by them cannot necessarily be obtained by using replacement components rated for higher wattage, etc. Replacement parts which have these special safely characteristics are identified in this manual and its supplements electrical components having such features are marked with "⚠" on the schematic diagram and the parts lits.

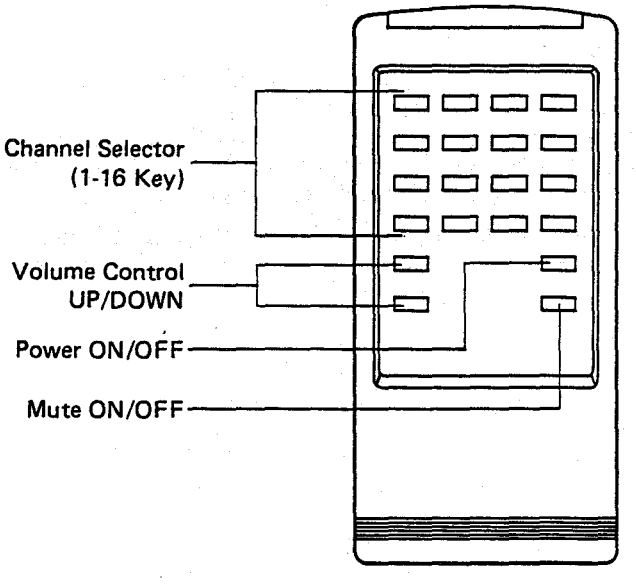
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-RAY RADIATION or other hazards.

OPERATING CONTROLS



INSIDE THE PRESET DOOR

1. Speaker
2. Power Switch
3. Preset Door
4. Volume Control Buttons (UP/DOWN)
5. Channel Selector Buttons (UP/DOWN)
6. Power (Stand by)
7. Digital Channel Indicator
8. Remote Control Receiver
9. Brightness Control
10. Contrast Control
11. Colour Control
12. AFC Switch
13. VHF$_L$ Indicator
14. VHF$_H$ Indicator
15. UHF Indicator
16. Band Selector Key
17. Memo. Key
18. Search (UP/DOWN)



WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CABINET BACK REMOVAL (See Figure 5)

1. Disconnect the antenna leads from the antenna termianls.
2. Remove 4 screws (B) securing the Cabinet Back to the Cabinet Front and detach the cabinet back.

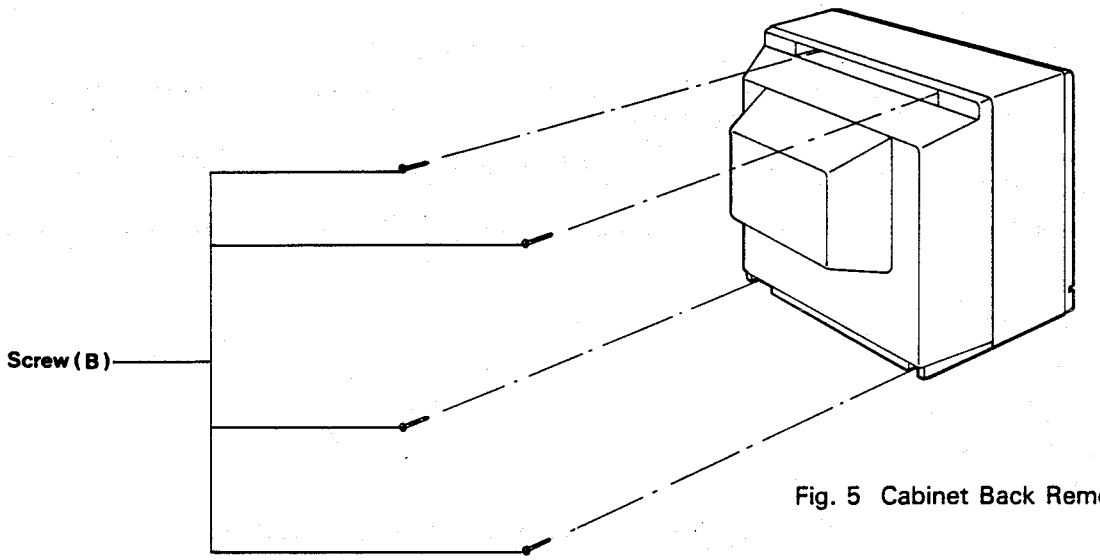


Fig. 5 Cabinet Back Removal

CHASSIS REMOVAL (See Sigure 6)

Following the steps under Cabinet Back Removal, proceed as follows:-

1. Unplug the CRT grounding wire socket connected to the CRT Socket Board.
2. Detach the picture tube anode cap.

Notice: Certainly dischange the high potential of the picture tube anode to the receiver chassis before removing the anode cap.

3. Detach the CRT Socket (CRT Socket Board).
4. Remove 7 screws securing the Control Board to the Cabinet Front.
5. Take out the chassis from the chassis holder.

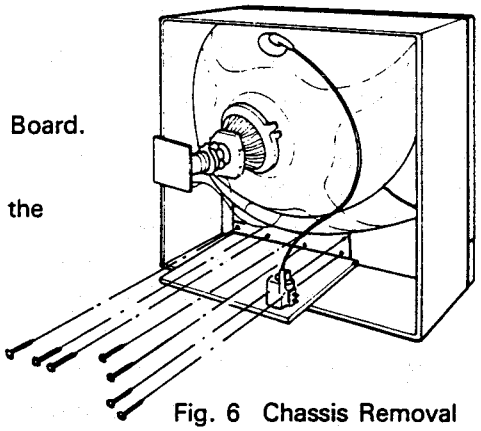


Fig. 6 Chassis Removal

PICTURE TUBE REMOVAL (See Figure 7)

Following the steps under CHASSIS REMOVAL proceed as follows:

1. Place the cabinet with the front down on a rolled pad or some suitable cushion placed near the top edge of the front panel.
2. Remove 4 nuts securing the picture tube to the cabinet, and detach the CRT with the degaussing coil, then grasp the face plate edge of the picture tube with both hands and take out the picture tube.
3. Detach the CRT grounding wire which is attached to the picture tube lugs with spring.

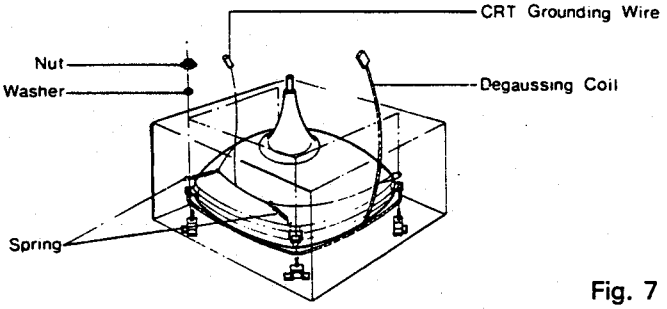


Fig. 7

GENERAL ADJUSTMENT INSTRUCTION

This receiver is transistorized and special care should be taken when servicing. Read the following matters that demand special attention before attempting adjustment.

1. Adjustment requires an exact procedure and should be undertaken only when necessary.
2. An isolation transformer should be used during any dynamic service to avoid possible shock hazard.
3. The test equipment specified or its equivalent is required to perform the alignment properly. Use of equipment which does not meet these requirements may result in improper alignment.
4. Correct matching of the equipemnt is essential. Failure to use proper matching will result in responses which can not represent the ture operation of the receiver.
5. The AC power line voltage should be kept 215 to 225 volts 50 Hz during alignment.
6. Do not attempt to connect or disconnect any wire while the receiver is in operation. Make sure the power cord is disconnected before replacing parts in the receiver.
7. Switch on the TV receiver and set AFC switch at "OFF" position. Adjust the controls for optimum picture and then set AFC switch at "ON" position.
8. Unless otherwise noted, do not perform any adjustment until the receiver has been turned on for at least 10 minutes.

I. Picture and Sound I.F. Adjustment

Test Equipment:

1. AM/FM signal generator (4.5MHz—6.5MHz)
2. Sweep /Marker signal operator (30MHz—60MHz)
3. Sync. oscilloscope.
4. Oscilloscope (volt sensitivity over 10 mV and input impedance over 1 M ohm, below 10PF).
5. Probe (Low capacitance)
6. High impedance electronic voltmeter on VTVM (Input impedance having 100K ohm/V at least).
7. DC power supply (Source such as a battery or a well regulated and isolated DC bias supply).

(A) Picture I.F. and AFC Adjustment:

(a). P.I.F. Alignment

(1). Connect the signal output of sweep/marker generator in series to Tp on tuner through 1K ohm resistor and 1000 pf capacitor (See Figure 8).

(2). Connect the vertical input terminal of an sync oscilloscope in series with a 100K ohm resistor to TP 10 (IC201—pin 39).

(3). Apply a + 16V DC across C319 on Main Board.

(4). Apply a + 8.8V DC dummy AGC bias in series to TP12 (pin 5 of IC101) through 500 ohm resistor.

(5). Tune L103 and L104 alternatively to obtain a waveform as shown in Fig. 9.

(b). AFC Alignment

(1). Carry out AFC adjustment after PIF adjustment in made.

(2). Reconnect the vertical input of the sync oscilloscope with 1M ohm resistor in series to TP13 (pin 13 of IC101).

(3). Set AFC Switch to ON position.

(4). Adjust L015 for the AFC waveform as shown in Fig. 10.

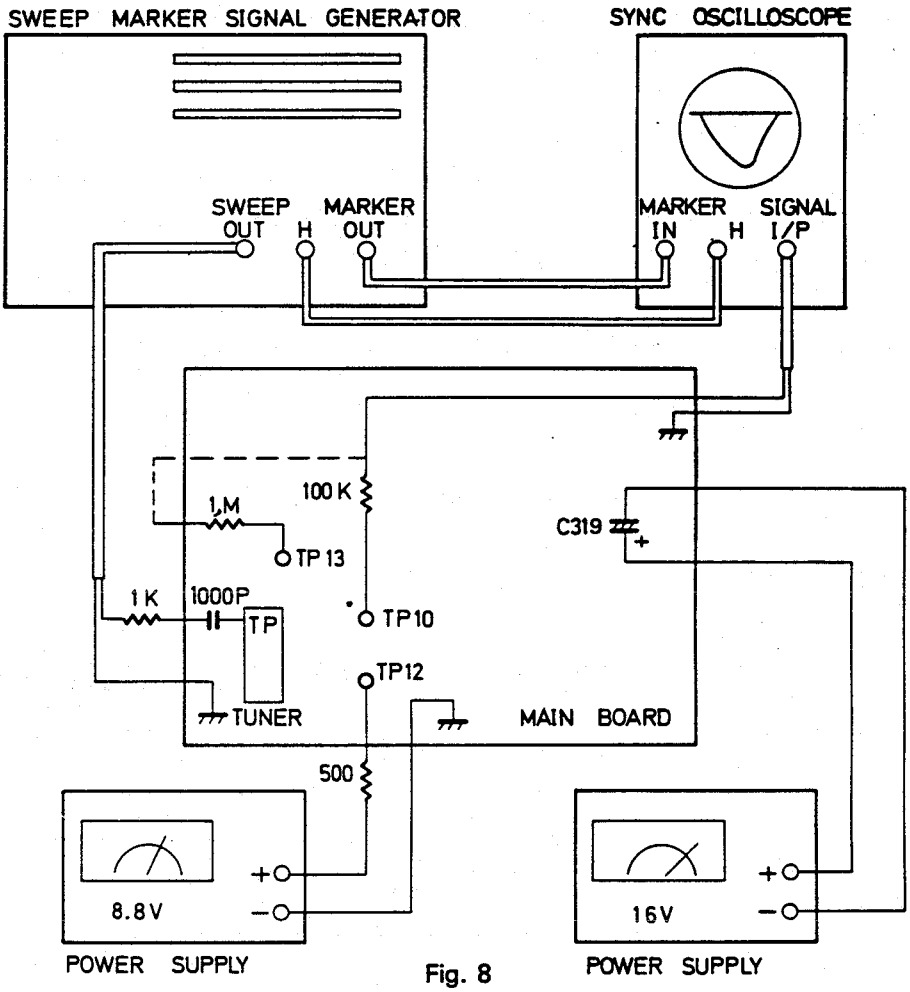


Fig. 8

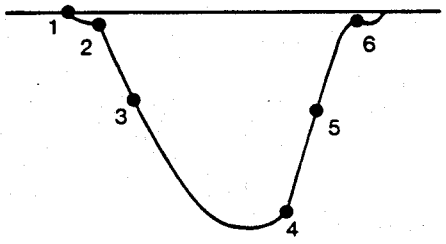


Fig. 9 **P.I.F. Response Curve**

P.I.F. RESPONSE

NO.	B/G	dB
1	31.9 MHz	> −40
2	33.4 MHz	−20 −26
3	34.47 MHz	−6 ±1
4	37.9 MHz	0
5	38.9 MHz	−6 ±1
6	40.4 MHx	> −40

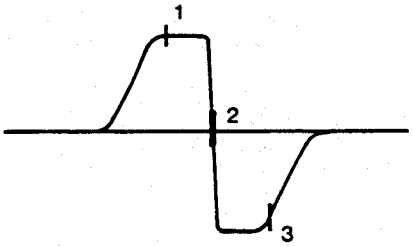


Fig. 10 **AFC Response Curve**

AFC RESPONE

NO.	B/G	dB
1	37.9 MHz	+
2	38.9 MHz	0
3	40.4 MHz	−

(B) S.I.F. Alignment

(1). The signal at AM/FM signal generator which is set at 5.5 MHz with AF 400 Hz, 30% FM modulation is applied to TP1 through a 1K ohm resistor and a 1000 pf capacitor. As shown in figure 11.

(2). Short pin 5 of IC101 to ground.

(3). Connect a 30K ohm VR to pin 1 of IC101.

(4). Connect a 8 ohm dummy load across socket G pin 1,2 in parallel with an oscilloscope and VTVM.

(5). Apply a + 16V DC across C319 and + 12V DC across C611 on Main board.

(6). Adjust the 30K ohm VR for maximum undistorted output.

(7). Fine adjust L106 to obtain a maximum amplitude signal output with minimum distortion.

(8). Check the audio output level with over 2W (4V) at maximum volume position.

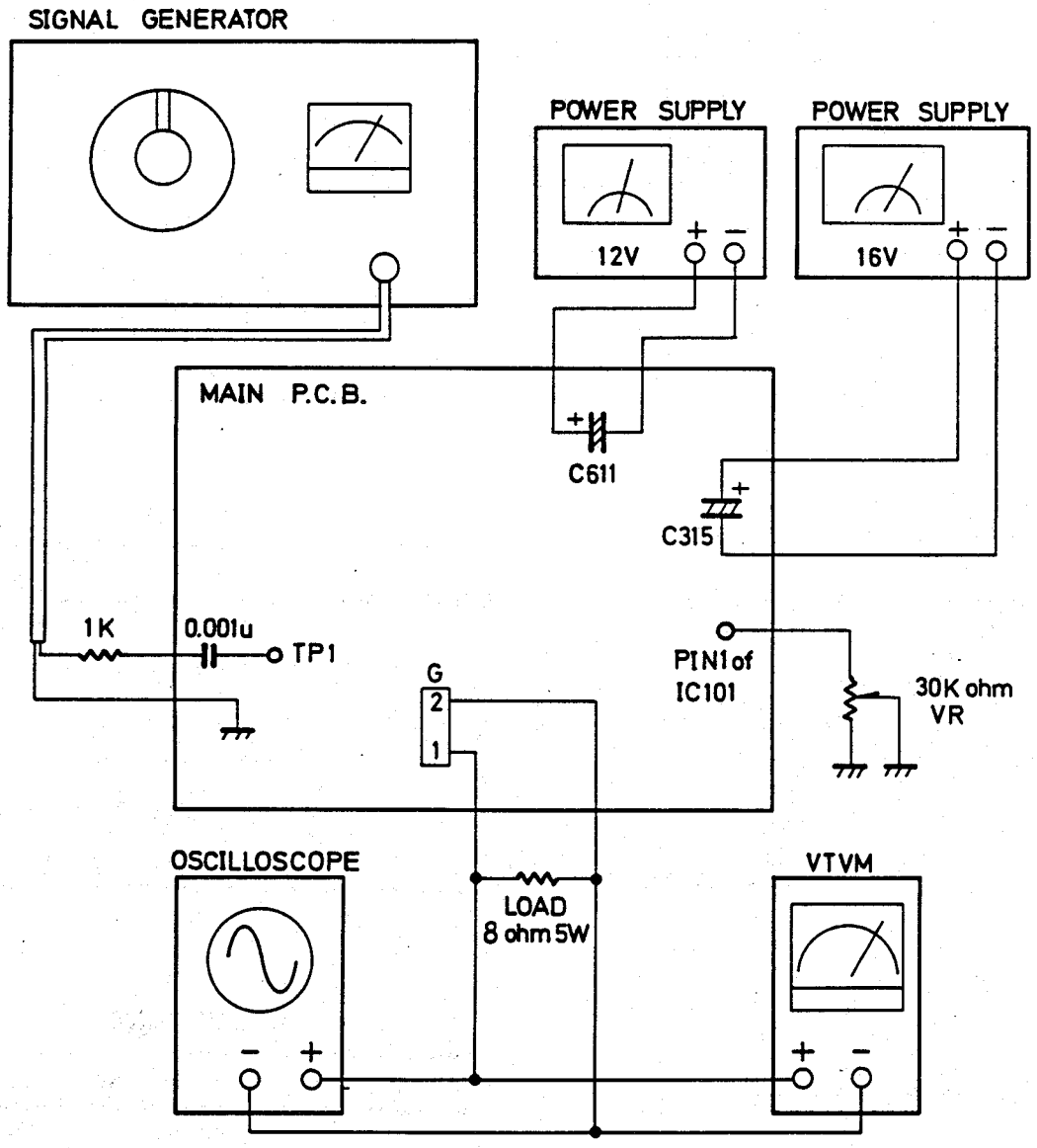


Fig. 11

II. General Adjustment

1. Automatic Degaussing

An automatic degaussing coil is attached around the picture tube, degaussing the tube properly in about one second after the set is switched on. If the receiver is moved or faced in a different direction, the power must be switched off at least 15 minutes in order that the automatic degaussing circuit operates properly. External degaussing is necessary if the automatic degaussing proves ineffective after the set is moved.

External degaussing is done by moving a degaussing coil circlewise in front of the face plate and then moving it away step by step until it is about two meters from the screen, then switch off the degaussing coil. If residual colour spots are still found on the screen, adjust the colour purity and convergence.

2. B+ (110V) adjustment

CAUTION: To avoid X-ray hazards, B + voltage must be set correctly at 110V positon.

(a). Make sure the AC power supply is 220V, 50Hz.

(b). Switch on the TV receiver, tune in an active channel.

(c). Connect test point TP11 on the main PCB (G01-A709A-00) to a reliable DC voltmeter.

(d). Adjust VR601 on main PCB (G01-A709A-00) for B + 110V voltage reading.

3. High Voltage Check

CAUTION: There is no high voltage adjustment in this chassis, B + 110V voltage directly relates to the high voltage, it must be properly adjusted to insure the correct high voltage. The high voltage does not exceed 30KV under any conditions.

(a). Connect an accurate high voltage meter to the second anode cap of the picture tube.

(b). Turn on the receiver, set Brightness and Contrast controls to minimum. (Zerobeam current)

(c). Make sure the high voltage does not exceed 28KV.

(d). No matter whether the luminance, contrast and chrominance controls are set to maximum or minimum, the high voltage must be kept under 28KV.

4. Horizontal Oscillator Adjustment

If the picture shows an unstable sync. in horizontal, adjust the VR 206 semi-variable resistor, setting it at the center of holding range.

5. Vertical Oscillator Adjustment

If the picture moves up or down on the screen, adjust the VR207 until there is a single image without vertical movement.

6. Height Adjustment

Vertical Height Control (VR208) can change the size of the picture. Make fine adjustment until the picture overscans the mask 2 mm.

7. Focusing

Receive a TV test pattern signal, adjust controls for optimum picture, Adjust Focus Control for a well-defined, sharpest display in the centre area of the screen.

8. Delay AGC Adjustment

(a). Tune the set in the strongest station in your area.

(b). Turn AGC Delay control (VR101) on Main Board to fully counterclockwise position.

(c). Adjust VR101 clockwise until noise (snow) disappears from the screen.

9. Sub-Brightness Adjustment

(a). Tune in Philips Standard Colour pattern signal.

(b). Set the Contrast, Brightness and Colour Controls to the minimum.

(c). Set the Sub-Brightness Control (VR202) to the center and warm up the set for 5 minutes.

(d). Adjust Sub-Brightness Control (VR202) until light just appears on the screen.

10. White Balance Adjustment

(a). Receive a monochrome signal and warm up the set for 15 minutes.

(b). Set the R.G.B. cut off controls (VR501, VR503, VR505) and the G.B. drive controls (VR502, VR504) at center positions.

(c). Rotate the screen control fully counterclockwise.

(d). Disconnect the luminance output terminal connector and connect TP 5 to ground with a jumper wire.

(e). Rotate the screen control gradually clockwise until the first horizontal appears on the screen.

(f). If the first horizontal is in blue, adjust VR501, VR503 to increase the red and green component level to get a white horizontal line.

(g). Remove the jumper wire and connect back the luminance output connector. Set the luminance and contrast control at normal position. Adjust VR502, VR504 to maintain a good white balance at the brightest part of the screen.

(h). Turn the brightness and contrast controls to maximum and minimum. Observe the screen white balance, if it is not proper in high brightness condition or low brightness condtion, adjust R.G.B. cut off controls or G.B. drive controls in order to maintain a good white balance in both low and high luminance conditions.

11. Luminance Channel Chroma Trap

(a). Tune in a colour bar signal.

(b). The test probe of oscilloscope connects to the pin 3 of IC201 and ground.

(c). Adjust trap coil of DL201 for minimum chroma signal (4.433 MHz).

12. Colour Sync Adjustment

(a). Tune in a colour bar signal.

(b). Set the contrast control to minimum and colour to control maximum.

(c). Cut off the colour killer by connection the pin 2 and pin 12 of IC201 with 10 Kohm resistor.

(d). Short L204 to ground by Jumper wire.

(e). Adjust the colour sync. variable capacitor (C215) on the main board so that the colour bar pattern stand still or drifts slowly across the picture screen.

(f). Remove the resistor and jumper wire.

(g). Check that the colour sync. is stable with channel changing and power on-off operation. If the colour is slow to appear or the colour sync. is out of order, return the colour sync. variable capacitor (C215) for proper colour display.

13. PAL Matrix Adjustment

(a). Tune in a Philips standard colour pattern.

(b). Set the colour control at maximum position.

(c). If the PAL Matrix adjustment is incorrect, the Venetian Blind would appear in the colour bar area. Then adjustments should be made as follow:

(d). Adjust VR201 to minimize the Venetain Blind in the R-Y, B-Y Decording area.

(e). Adjust L203 & L204 alternatively to minimize the Venetain Blind in the colour bars area.

(f). Repeat (d) & (e) step until the Venetain Blind disappears.

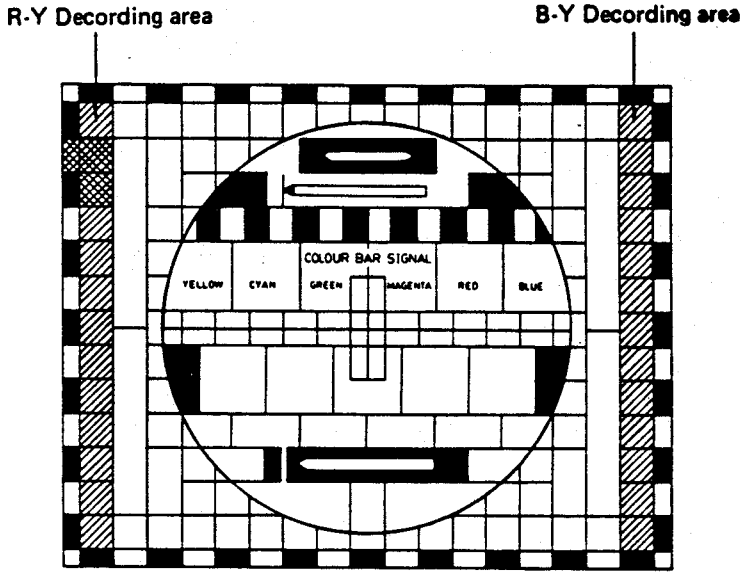


Fig. 12 Philips standard colour pattern

III. Colour Purity And Convergence Adjustment

1. Colour Purity Adjustment

NOTE: Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

(a). Demagnetize the picture tube and cabinet using a degaussing coil.

(b). Turn the Contrast and Brightness controls to maximum.

(c). Adjust Red and Blue Cut-off controls (VR501 and VR505) to provide only a green raster. Advance the Green Cut-of control (VR503) if necessary.

(d). Loosen the clamp screw holding the yoke backward to provide vertical green belt (Zone) in the picture screen.

(e). Remove the Rubber Wedges.

(f). Rotate and spread the tabs of the purity magnet (see fig. 13) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, center the raster vertically.

(g). Move the yoke slowly forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.

(h). Check the purity of the red and blue raster by adjusting the Bias controls.

(i). Obtain a white raster, referring to white balance adjustment.

(j). Proceed with convergence adjustment.

2. Convergence Magnet Assembly Positioning

Convergence magent assembly and rubber wedges need mechanical positioning following fig. 13.

3. Center Convergence Adjustment

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

(a). Receive crosshatch pattern with a colour bar signal generator.

(b). Adjust the Brightness and Contrast controls for well defined pattern.

(c). Adjust two tabs of the 4 Pole Magnets to change the angle between them (see fig. 14) and superimpose red and blue vertical lines in the center area of the picture screen. (see fig. 15).

(d). Turn both tabs at the same time keeping the constant angle to superimpose red and blue horizontal lines at the center of screen (see fig. 15).

(e). Adjust two tabs of 6 Pole Magnets to superimpose red/blue line with green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.

(f). Repeat adjustments 3, 4, 5, keeping in mind red, green and blue movement, because 4 Pole Magnets and 6 Pole Magnets interact and make dot movement complex.

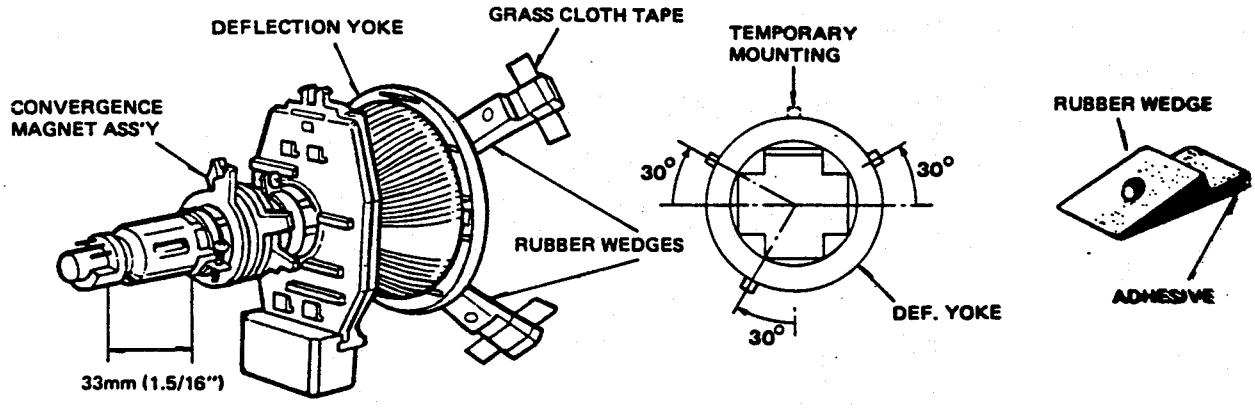


Fig. 13 RUBBER WEDGES LOCATION

4. Circumfernce Convergence Adjustment

NOTE: This adjustment requires Rubber Wedges and Glass Cloth Tapes.

(a). Loosen the clamping screws of deflection yoke to allow the yoke to tilt.

(b). Place a wedge as shown in figure 13 temporarily. (Do not remove cover paper on adhesive part of the wedge).

(c). Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (see fig. 15) Push the mounted wedge into the space between picture tube and the yoke to hold the yoke temporarily.

(d). Place other wedge into bottom space and remove the cover paper to stick.

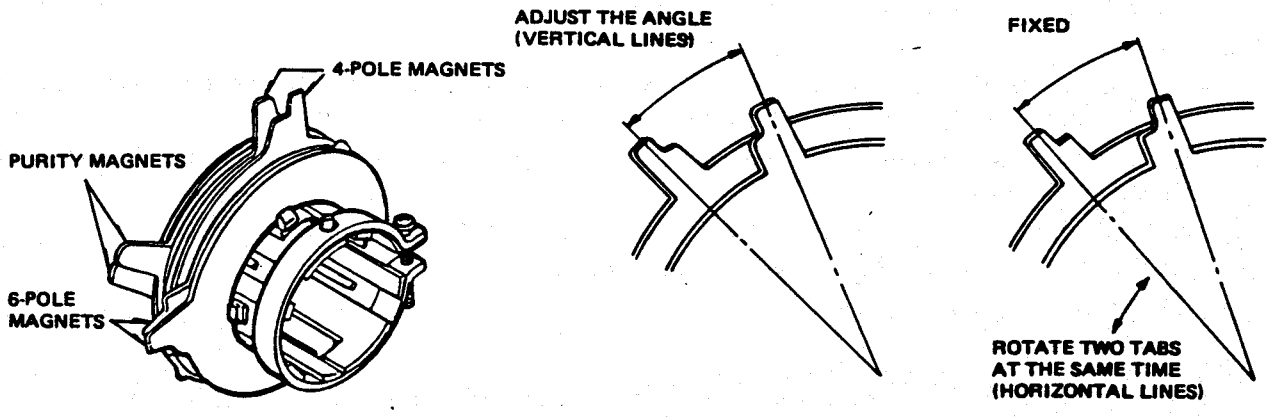
(e). Tilt front of the yoke right or left obtain better convergence in circumference. (see fig. 15)

(f). Hold the yoke position and put another wedge in either upper space, remove cover paper and stick the wedge on picture tube to hold the yoke.

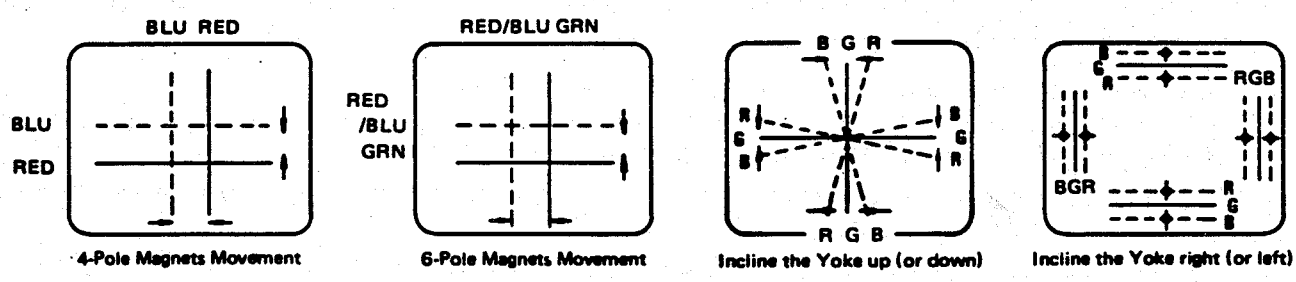
(g). Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.

(h). After placing three wedges, recheck over all convergence. Tighten the screw firmly to hold the yoke tightly in place.

(i). Stick 3 grass cloth tapes on wedges as shown in figure 13.



CONVERGENCE MAGNET ASSEMBLY Fig. 14 ADJUSTMENT OF MAGNETS



Center Convergence by Convergence Magents Circumference Convergence by DEF Yoke

Fig. 15 Dot Movement Pattern

REMOTE CONTROL UNIT

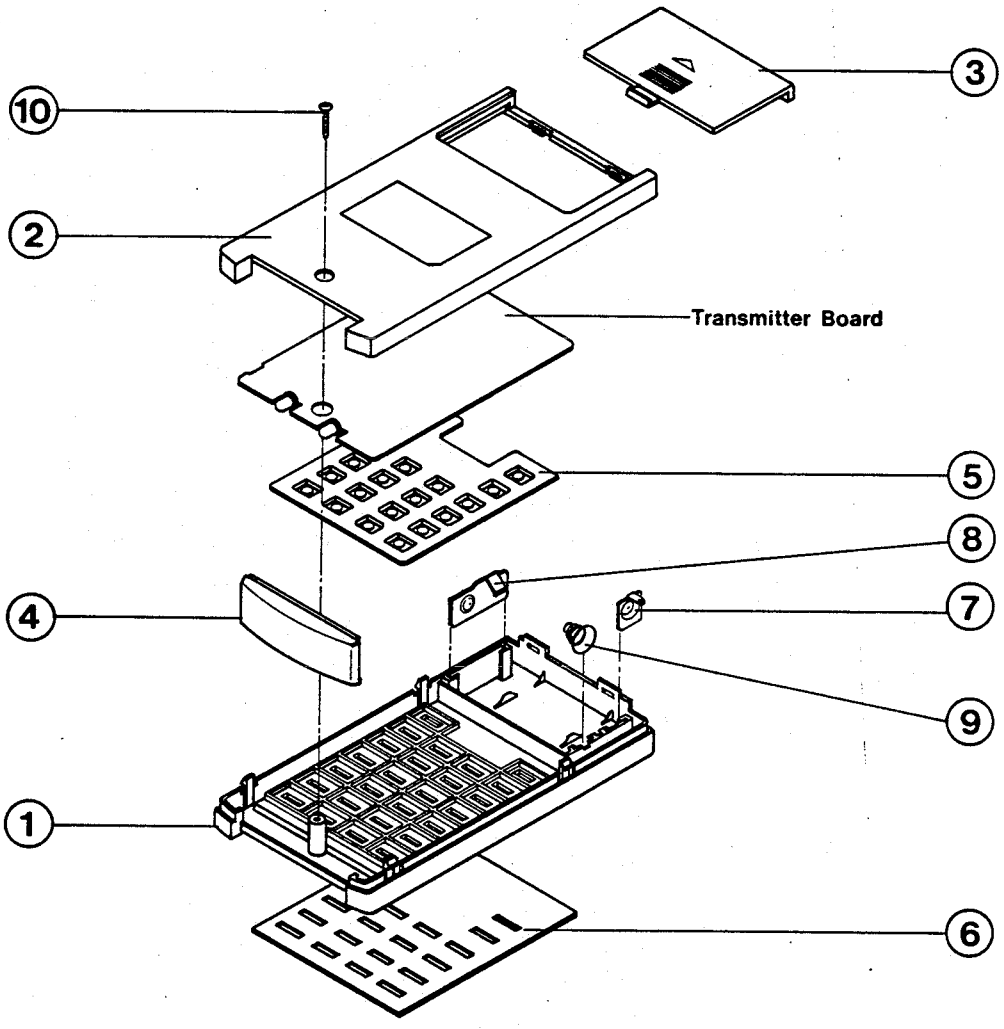


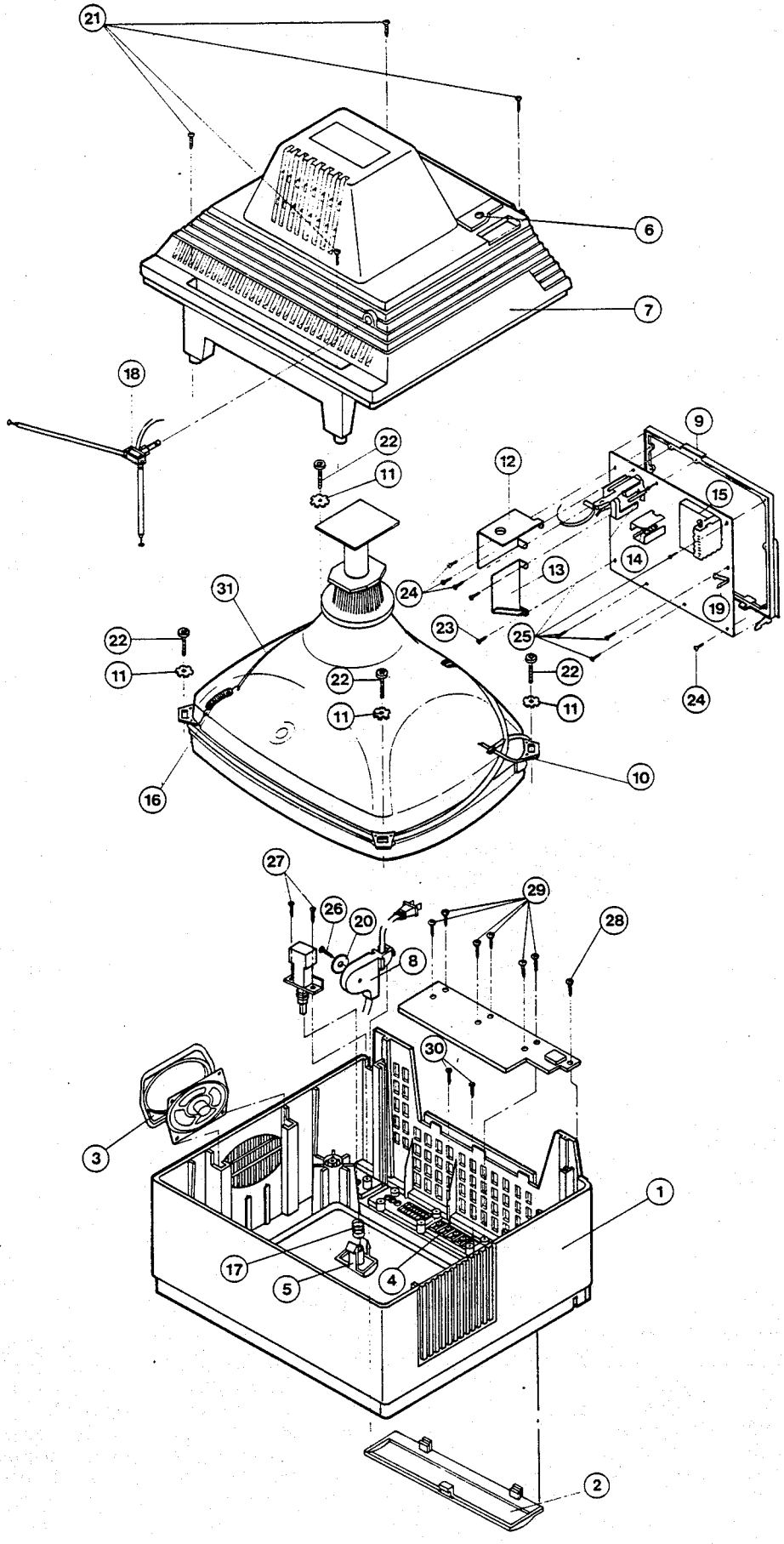
Fig. 16

MECHANICAL PART LIST

ITEM	PART NO.	DESCRIPTION
1.	A01-A0078-00	Top Cabinet
2.	A01-A0079-00	Bottom Cabinet
3.	A01-A0080-00	Battery Door
4.	A01-A0081-00	Infrared Lens
5.	D01-A0004-00	Rubber Contact Plate

ITEM	PART NO.	DESCRIPTION
6.	D02-A0005-00	Handset Inlay
7.	B00-A0025-00	Battery Contact Plate (+)
8.	B00-A0024-00	Battery Contact Plate (+/–)
9.	E00-A0009-00	Battery Contact Spring (–)
10.	M3P-T2601-08	Screw T2.6×8 P/H (+)

EXPLODED DIAGRAM OF MAIN UNIT



MECHANICAL PARTS LIST FOR MAIN UNIT

ITEM	PART NO.	DESCRIPTION
1.	A01-A0088-01	FRONT CABINET-METALLIC DARK GRAY SPRAY W/SILKSCREEN
2.	A01-A0089-01	PRESET DOOR - METALLIC DARK GRAY SPRAY W/SILKSCREEN
3.	A01-A0090-00	SPEAKER HOLDER - BLACK MOULDED
4.	A01-A0091-00	PUSH BUTTON - BLACK MOULDED
5.	A01-A0092-00	POWER SW. KNOB - BLACK MOULDED
6.	A03-A0018-00	JACK PLATE - BLACK MOULDED
7.	A02-A0013-00	BACK CABINET - BLACK MOULDED
8.	A01-A0009-00	AC CORD HOLDER - BLACK MOULDED
9.	A03-A0015-00	CHASSIS BRACKET - BLACK MOULDED
10.	A04-A0114-00	CABLE TIE L-8"
11.	B01-A0001-01	METAL WASHER
12.	B01-A0005-00	HEAT SINK BRACKET FOR POWER
13.	B01-A0006-00	HEAT SINK FOR HORIZONTAL AMP.
14.	B01-A0007-00	HEAT SINK TRANSISTOR
15.	B01-A0008-00	PIF SHIELDING COVER
16.	E00-A0001-00	GROUNDING WIRE SPRING DIA. 7x14 FOR TWISTED WIRE
17.	E00-A0011-00	POWER KNOB SPRING
18.	F00-A0004-00	INDOOR ANTENNA - SINGLE TYPE (VHF) DIA. 8x200 (W/RCA JACK)
19.	J00-W0002-00	WIRE LUG
20.	L00-P3514-F0	FIBRE WASHER
21.	M1P-T3501-25	T3.5x25 P/H (+) FOR BACK/FRONT CAB. MTG.
22.	M1B-T4001-25	T4x25 B/H (+) FOR CRT/FRONT CAB. MTG.
23.	M1P-T3001-12	T3x12 P/H (+) FOR HEAT SINK/CHASSIS BKT. MTG.
24.	M1P-T3001-12	T3x12 P/H (+) FOR HEAT SINK/CHASSIS BKT. MTG.
25.	M1P-T3001-08	T3x8 P/H (+) FOR MAIN P.C.B./CHASSIS BKT. MTG.
26.	M1P-T3001-08	T3x8 P/H (+) FOR AC CORD/AC CORD HOLDER MTD.
27.	M1P-T3001-08	T3x8 P/H (+) FOR POWER SW./FRONT CAB. MTG.
28.	M1B-T2600-10	T2.6x10 B/H (+) FOR CONTROL P.C.B./FRONT CBB. MTG.
29.	M1B-T2600-06	T2.6x6 B/H (+) FOR CONTROL P.C.B./FRONT CAB. MTG.
30.	M1B-T2600-08	T2.6x8 B/H (+) FOR PUSH BUTTON/FRONT CAB. MTG.
31.	P01-01104-01	TWISTED WIRE L = 1040MM

BLOCK DIAGRAM

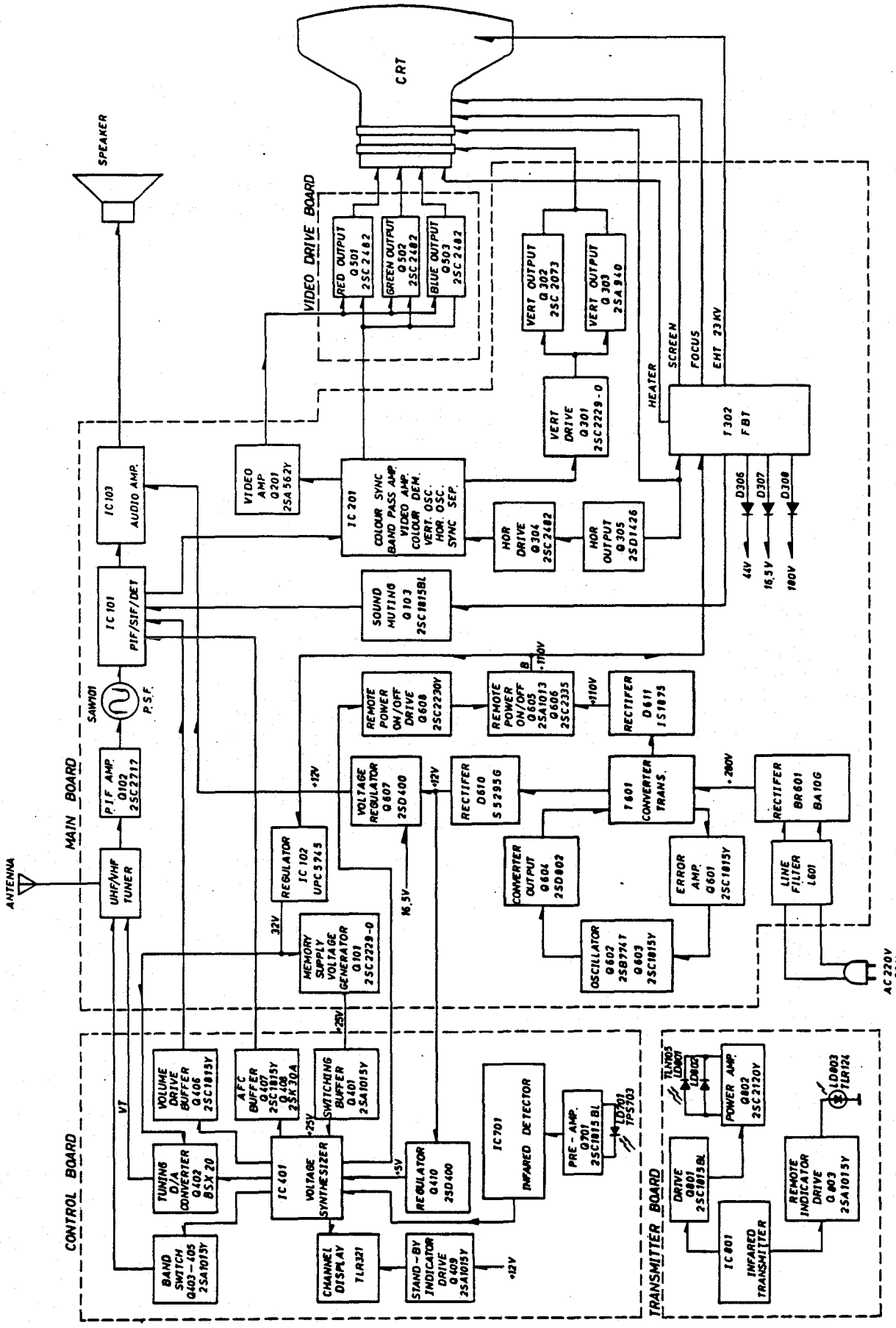
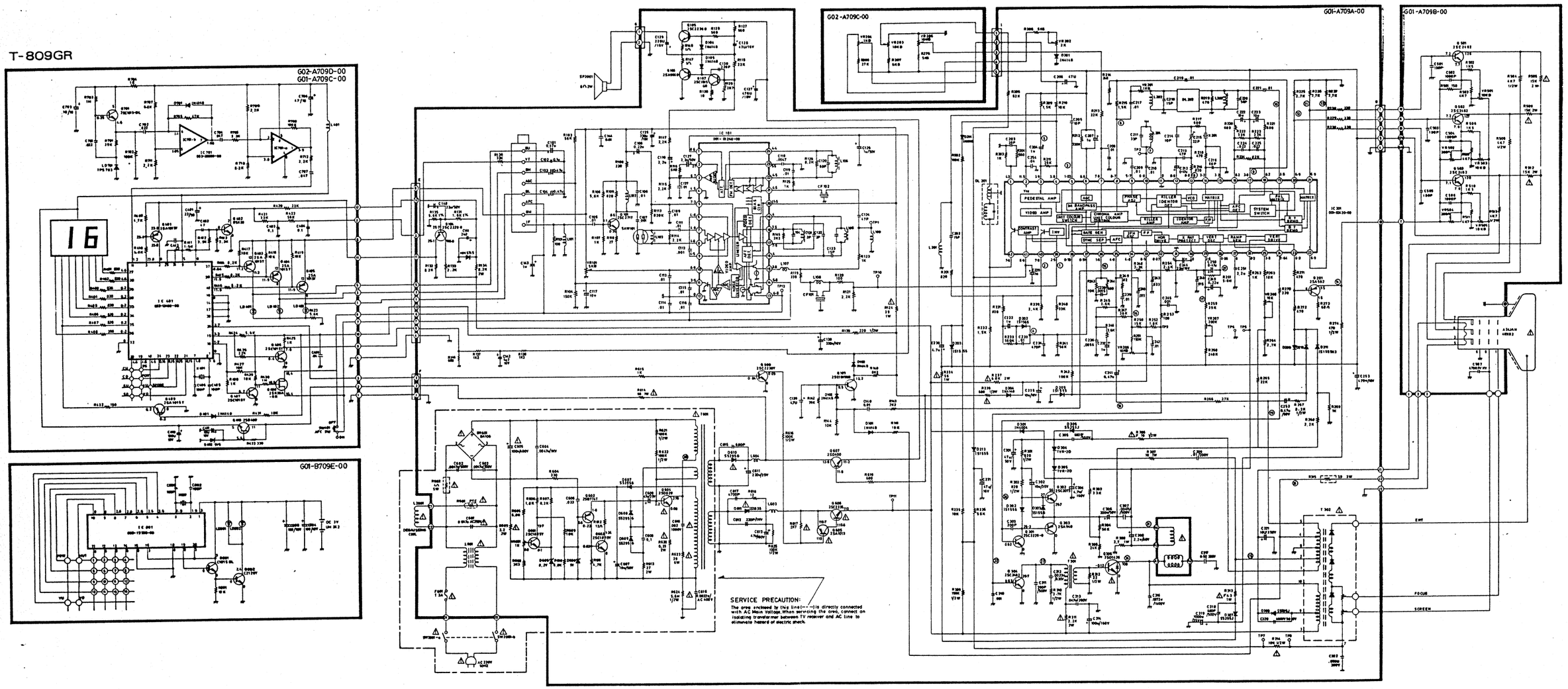


Fig. 18

SCHEMATIC DIAGRAM

T-809GR



TUNER CIRCUIT

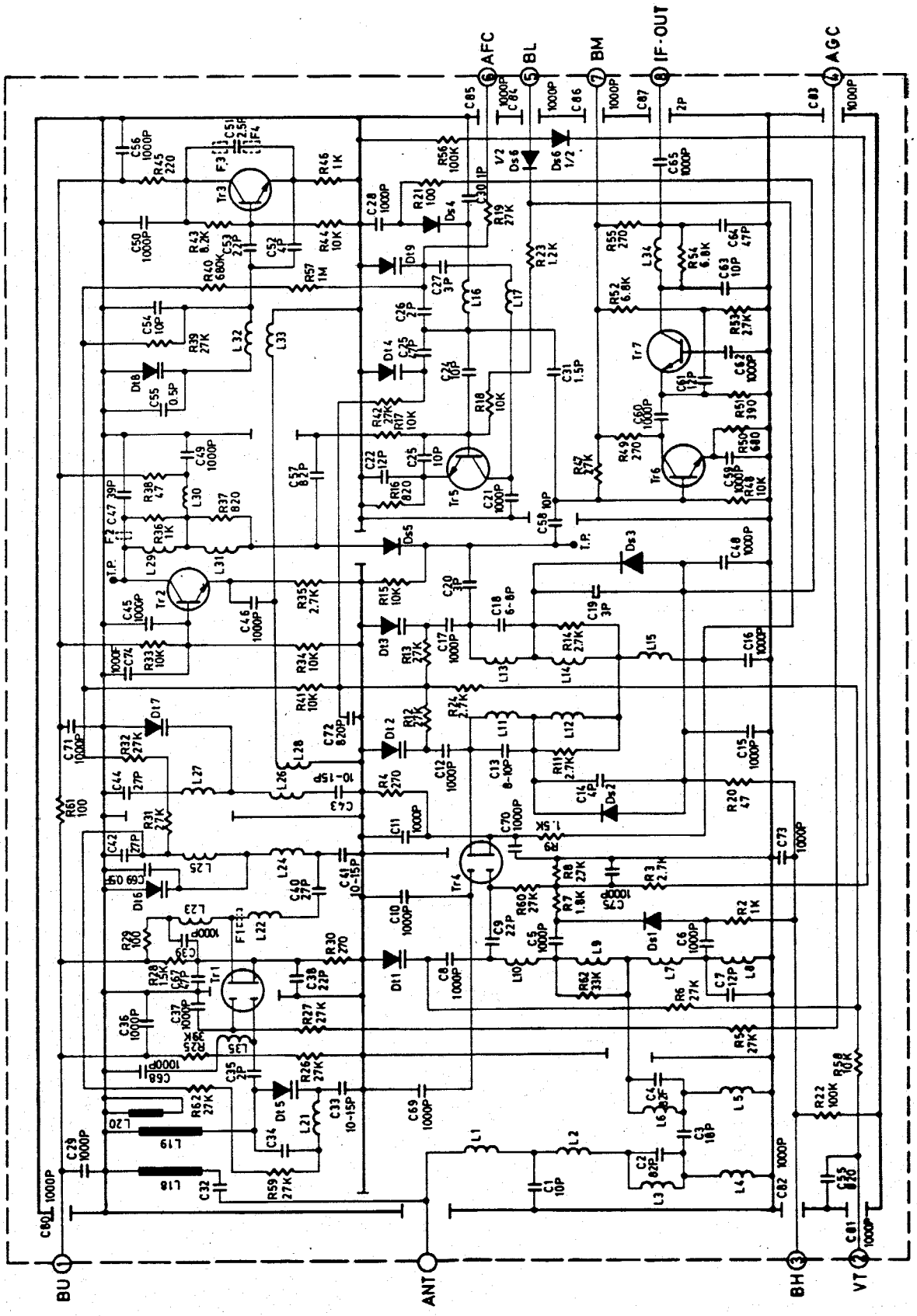
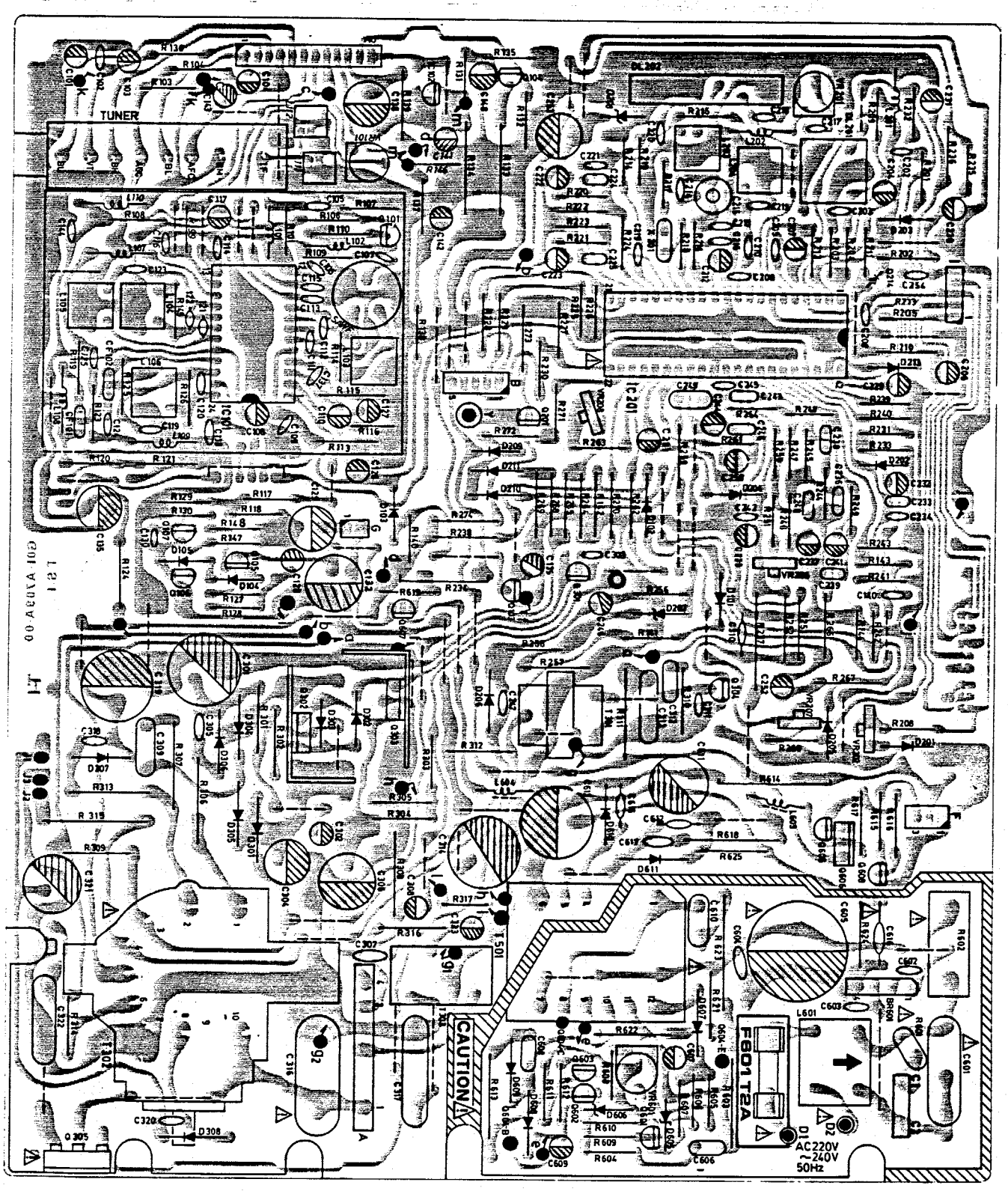
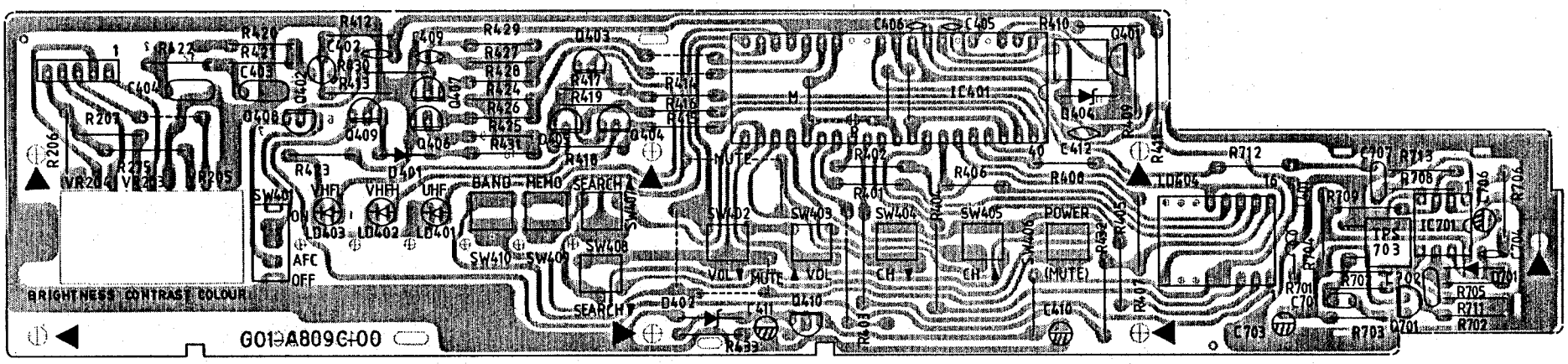


Fig. 20

TOP VIEW OF MAIN P.C. BOARD

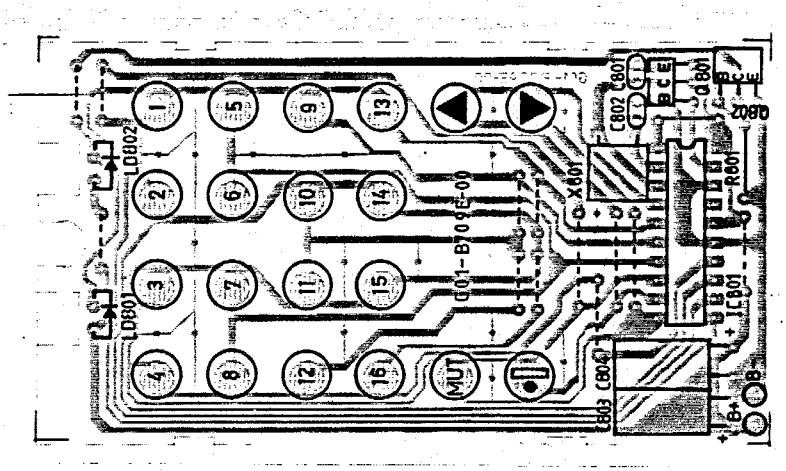


BOTTOM VIEW OF CONTROL P.C BOARD



T.S.I
MODEL-T809
CONTROL P.C.B

COMPONENT VIEW OF HANDSET P.C. BOARD



COMPONENT VIEW OF CRT P.C. BOARD

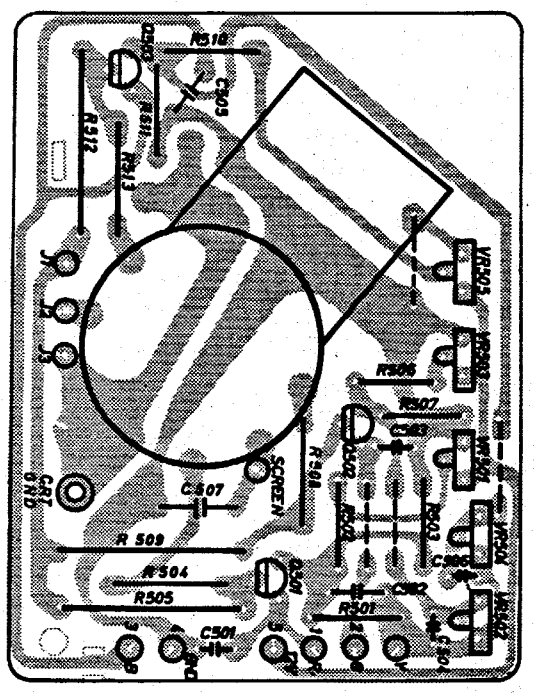


Fig. 25

ELECTRICAL PARTS LIST

SCHEMATIC NO.	PART NO.	DESCRIPTION
MAIN P.C.B. ASSEMBLY		
TRANSISTOR		
Q101	A01—C717A-00	2SC2717
Q601, 603	A01-C815E-00	2SC1815-Y
Q104, 301	A01-C229D-00	2SC2229-O
Q201	A01-A562E-00	2SA562-TMY
Q302	A01-C073D-00	2SC2073
Q303	A01-A940D-00	2SA940
Q304	A01-C482D-00	2SC2482
Q305	A01-D426A-00	2SD1426
Q602	A01-B774D-00	2SB774-T
Q604	A01-D820D-00	2SD820
Q608	A01-C230E-00	2SC2230-AY
Q607	A03-D400F-00	2SD400F
Q605	A01-A013E-00	2SA1013Y
Q606	A02-C335C-00	2SC2335 ALTERNATE BUV46 (A01-V046C-00)
Q105	A01-C236D-00	2SC2236-O
Q106	A01-A966D-00	2SA966-O
Q107	A01-C815F-00	2SC1815-GR
Q103	A01-C815G-00	2SC1815BL
DIODE		
D101, 102, 103, 104, 105, 201, 204	B01-01148-00	1N4148
D202, 203, 205, 209, 210, 211, 213, 302, 303	B01-01555-00	1S1555
D307, 308, 607, 608, 609, 610	B01-02529-00	S5295G
D306	B01-02529-01	S5295J
D611	B01-02835-00	1S1835
D304, 305	B01-02002-00	TVR-2D
BR601	B01-01010-00	DBA10G
D301	B01-01004-00	1N4004S
D605	B01-04082-00	8.2V ZENER (GAZ8.2Y)
D606	B01-04090-00	9.1Y ZENER (GZA9.1Y)
SEMI-FIXED RESISTOR		
VR201, 601	C01-B103B-C0	1KB COLOR MATRIX
VR101	C01-B503B-C0	5KB AGC
VR202	C02-A203B-C0	2KB SUB-BRIGHT
VR206, 208	C02-A104B-C0	10KB H-HOLD V-HEIGHT
VR207	C02-A205B-C0	200KB V-HOLD

SCHEMATIC NO.	PART NO.	DESCRIPTION
CARBON FILM RESISTOR +/-5% 1/4W		
R148, 147	D01-A010C-D0	1 OHM
R130	D01-A100C-D0	10 OHM
R110	D01-A270C-D0	27 OHM
R273	D01-A680C-D0	68 OHM
R249	D01-A820C-D0	82 OHM
R101, 120, 253	D01-A101C-D0	100 OHM
R108	D01-A221C-D0	220 OHM
R214	D01-A241C-D0	240 OHM
R119, 228, 229, 230, 270, 604	D01-A331C-D0	330 OHM
R218, 219, 271, 272	D01-A471C-D0	470 OHM
R204, 127, 128	D01-A561C-D0	560 OHM
R217, 220, 221, 244, 619, 146	D01-A681C-D0	680 OHM
R201, 216, 231, 109	D01-A821C-D0	820 OHM
R107, 123, 125, 262, 615, 269	D01-A102C-D0	1 KOHM
R209, 215, 232	D01-D152C-D0	1.5 KOHM
R137, 138, 252, 606	D01-A182C-D0	1.8 KOHM
R121, 145, 268, 115, 117, 114	D01-A222C-D0	2.2 KOHM
R239, 254	D01-A242C-D0	2.4 KOHM
R225, 226, 227, 264, 617, 129	D01-A272C-D0	2.7 KOHM
R143, 248, 608	D01-A332C-D0	3.3 KOHM
R245, 246	D01-A362C-D0	3.6 KOHM
R203	D01-A122C-D0	1.2 KOHM
R611	D01-A472C-D0	4.7 KOHM
R106, 208	D01-A562C-D0	5.6 KOHM
R116, 605, 610	D01-A682C-D0	6.8 KOHM
R126, 140, 243, 607	D01-A822C-D0	8.2 KOHM
R141, 199, 210, 235, 609	D01-A103C-D0	10 KOHM
R144	D01-A153C-D0	15 KOHM
R263	D01-A183C-D0	18 KOHM
R213, 265, 118	D01-A223C-D0	22 KOHM
R305	D01-A243C-D0	24 KOHM
R266	D01-A273C-D0	27 KOHM
R222, 223, 240, 136	D01-A333C-D0	33 KOHM
R211, 247	D01-A363C-D0	36 KOHM
R142, 259	D01-A393C-D0	39 KOHM
R303	D01-A473C-D0	47 KOHM
R103, 236, 241, 304	D01-A563C-D0	56 KOHM
R132, 224	D01-A823C-D0	82 KOHM
R202, 242	D01-A104C-D0	100 KOHM
R205	D01-A124C-D0	120 KOHM
R104	D01-A154C-D0	150 KOHM
R260	D01-A244C-D0	240 KOHM
R212	D01-A334C-D0	330 KOHM
R233	D01-A564C-D0	560 KOHM
R113	D01-A824C-D0	820 KOHM
R261	D01-A565C-D0	5.6 MOHM

ELECTRICAL PARTS LIST

SCHEMATIC NO.	PART NO.	DESCRIPTION
CARBON FILM RESISTOR +/-5% 1/2W		
R312	D01-A220C-F0	22 OHM
R139	D01-A221C-F0	220 OHM
R274	D01-A471C-F0	470 OHM
R310	D01-A272C-F0	2.7 KOHM
R267	D01-A822C-F0	8.2 KOHM
R314	D01-A103C-F0	10 KOHM
R625, 616	D01-A104C-F0	100 KOHM
R309	D01-A154C-F0	150 KOHM
METAL FILM RESISTOR		
R131	D00-C162A-D0	1.6 KOHM +/-1% 1/4W
R135	D00-C562A-D0	5.6 KOHM +/-1% 1/4W
R250	D00-C153B-D0	15 KOHM +/-2% 1/4W
R251	D00-C154B-D0	150 KOHM +/-2% 1/4W
METAL OXIDE RESISTOR		
R238	D04-D681C-F0	680 OHM +/-5% 1/2W
R301, 302	D04-D821C-F0	820 OHM +/-5% 1/2 W
R308	D04-D027C-G0	2.70 OHM +/-5% 1W
R307	D04-D100C-G0	10 OHM +/-5% 1W
R124	D04-D390C-G0	39 OHM +/-5% 1W
R614	D04-D680C-G0	68 OHM +/-5% 1W
R234	D04-D560C-G0	56 OHM +/-5% 1W
R620	D04-D003C-H0	0.33 OHM +/-5% 2W
R612, 618	D04-D120C-H0	12 OHM +/-5% 2W
R613	D04-D270C-H0	27 OHM +/-5% 2W
R237	D04-D682C-H0	6.8 KOHM +/-5% 2W
R134	D04-D822C-H0	8.2 KOHM +/-5% 2W
R311	D04-D222C-I0	2.2 KOHM +/-5% 3W
R133	D04-D222C-H0	2.2 KOHM +/-5% 2W
FUSIBLE RESISTOR		
R306	D03-E100C-F0	10 OHM +/-5% 1/2W
R313	D03-E043C-G0	4.3 OHM +/-5% 1W
NON-INFLAMMABLE RESISTOR		
R602	D03-G040D-J0	4 OHM +/-10% 5W KW-SQZ
R603	D03-G022D-H0	2.2 OHM +/-10% 2W KW-KNP
R315	D03-G039D-H0	3.9 OHM +/-10 % 2W KW-KNP
R623	D03-G390D-K0	39 OHM +/-10% 6W KW-KNP
R601	D06-H300Z-00	P.T.C. THERMISTOR
CARBON COMPOSITION RESISTOR		
R624	D05-B565D-F0	5.6 MOHM +/-10% 1/2W
CARBON COMPOSITION RESISTOR		
R621, 622	D05-B184C-F0	180 KOHM +/-5% 1/2W
C215	E04-B200A-00	TRIMMER CAPACITOR 20PF

SCHEMATIC NO.	PART NO.	DESCRIPTION
CERAMIC CAPACITOR		
C121, 122	F01-C020F-A0	2PF 50V +/-0.25PF
C205, 214	F01-C100F-C0	10PF 50V +/-5%
C123, 202, 218	F01-C150F-C0	15PF 50V +/-5%
C211	F01-C330F-C0	33PF 50V +/-5%
C124, 213, 125	F01-C470F-C0	47PF 50V +/-5%
C220	F01-C560F-C0	56PF 50V +/-5%
C216	F01-C680F-C0	68PF 50V +/-5%
C203	F01-C390F-C0	39PF 50V +/-5%
C130	F01-C221F-C0	220PF 50V +/-5%
C234	F01-C471F-C0	470PF 50V +/-5%
C107, 112, 245, 310	F01-C102F-D0	0.001UF 50V +/-10%
C111, 113, 114, 115, 116, 208, 210, 219, 242 C105, 106, 109, 119, 137, 209, 217, 221, 144, 140	F01-C103F-G0	0.01UF 50V +80-20%
C102	F01-C104F-G0	0.1UF 50V +80-20%
C254	F01-C403F-G0	0.04UF 50V +80-20%
C303	F05-C221N-D0	220PF 500V +/-10%
C311	F05-C391N-D0	390PF 500V +/-10%
C318, 320, 615, 305	F05-C681N-D0	680PF 500V +/-10%
C602, 603, 307	F05-C472N-D0	0.0047UF 500V +/-10%
C612	F05-C2220-D0	2200PF 1KV +/-10%
C604, 617	F05-C4720-D0	4700PF 1KV +/-10%
C616	F05-C222W-E0	AC CAPACITOR 2200PF AC400V +/-20%
POLYESTER FILM CAPACITOR		
C118	F11-M472H-D0	0.004UF 100V +/-10%
C233	F11-M103H-D0	0.01UF 100V +/-10%
C224, 225	F11-M223H-D0	0.022UF 100V +/-10%
C243, 606	F11-M333H-D0	0.033UF 100V +/-10%
C608	F11-M104H-D0	0.1UF 100V +/-10%
C249	F11-M224H-D0	0.22UF 100V +/-10%
C248	F11-M153H-D0	0.015UF 100V +/-10%
POLYPROPYLENE FILM CAPACITOR (B TYPE)		
C238	F08-D152F-C0	0.0015UF 50V +/-5%
C236	F08-D562F-C0	0.0056UF 50V +/-5%
C240	F08-D302F-C0	0.003UF 50V +/-5%
C239	F08-D103F-C0	0.01UF 50V +/-5%
POLYPORPYLENE FILM CAPACITOR		
C312	F08-P222N-D0	0.0022UF 630V +/-10%
C309	F08-P103K-D0	0.01UF 200V +/-10%
C313	F08-P473K-D0	0.047UF 200V +/-10%
C322	F08-P563K-D0	0.056UF 200V +/-10%
C317	F08-P524K-D0	0.52UF 200V +/-10%
C316	F08-P722P-C0	0.0072UF 1.6KV +/-5%
C610	F08-P2220-D0	0.0022UF 1200V +/-10%
C601	F01-P473V-E0	0.047UF AC250V

ELECTRICAL PARTS LIST

SCHEMATIC NO.	PART NO.	DESCRIPTION
T-C CERAMIC CAPACITOR		
C120	F01-L680F-C0	68PF 50V +/-5%
ELECTROLYTIC CAPACITOR (SINGLE ENDED TYPE)		
C117, 222, 223, 235	F01-E106C-E0	10UF 16V +/-20%
C128, 206, 231	F01-E476C-E0	47UF 16V +/-20%
C129	F01-E227C-E0	220UF 16V +/-20%
C135, 138	F01-E337C-E0	330UF 16V +/-20%
C253, 132	F01-E477C-E0	470UF 16V +/-20%
C609	F01-E476D-E0	47UF 25V +/-20%
C611	F01-E227D-E0	220UF 25V +/-20%
C319	F01-E108D-E0	1000UF 25V +/-20%
C108	F01-E224F-E0	0.22UF 50V +/-20%
C101, 212, 241, 250, 252, 103, 104	F01-E474F-E0	0.47UF 50V +/-20%
C204, 207, 229, 232, 143, 126, 237	F01-E105F-E0	1UF 50V +/-20%
C110, 127, 141, 308	F01-E225F-E0	2.2UF 50V +/-20%
C139, 142, 230	F01-E475F-E0	4.7UF 50V +/-20%
C607, 302	F01-E106F-E0	10UF 50V +/-20%
C306	F01-E227F-E0	220UF 50V +/-20%
C304	F01-E475I-F0	4.7UF 160V +50-10%
C314	F01-E107I-F0	100UF 160V +50-10%
C321	F01-E106L-F0	10UF 250V +50-10%
C605	F01-E017M-F0	100UF 400V +50-10%
C251	F01-E225F-D0	2.2UF 50V +/-10%
C613	F01-E476I-F0	47UF 160V +50-10%
C301	F01-E476F-E0	47UF 50 +/-20%
C148	F01-E226F-E0	22UF 50 +/-20%
**G01-A709A-00 MAIN P.C. BOARD 260X220MM		
L101	H05-0101A-00	PEAKING COIL 0.56UH
L102	H05-0102A-00	PEAKING COIL 1UH
L107	H05-0103A-00	PEAKING COIL 5.6UH
L202	H05-0104A-00	PEAKING COIL 8.2UH
L108, 109	H05-0105A-00	PEAKING COIL 15UH
L201	H05-0106A-00	PEAKING COIL 33UH
L603	H02-0101A-00	CHOKE COIL 90UH
L604	H02-1031A-00	CHOKE COIL 5UH
L103	H01-1301A-00	PIF MATCHING COIL
L104, 105	H01-1302A-00	PIF DET COIL
L106	H01-1303A-00	SIF DET COIL
L204	H01-1402A-00	BURST CLEANING COIL
L203	H01-1401A-00	DELAY LINE MATCHING COIL
DL201	H01-0701A-00	Y-DELAY LINE
L601	H07-0601A-00	LINE FILTER
T301	I01-0401A-00	HORIZONTAL DRIVE TRANSFORMER
T302	I12-0501A-00	FLYBACK TRANSFORMER CF65A
T601	I07-0601A-00	SWITCHING TRANSFORMER

SCHEMATIC NO.	PART NO.	DESCRIPTION
TAIKO TL-25 V-TYPE CONNECTOR		
	J05-0102A-00	PIN ASS'Y TL-25P02-V1
	J03-0406A-00	SMK M-1 CONNECTOR WAFER 6 PIN
	J03-0401A-00	SMK M-1 CONNECTOR WAFER 1 PIN
005P-2100	J05-01010-00	TAIKO TS-80 CONNECTOR
	**J05-0103A-00	3 PIN ASS'Y TL-25P-03-V1
	**J05-0105A-00	5 PIN ASS'Y TL-25P-05-V1
	**J05-0112A-00	12 PIN ASS'Y TL-25P-12-V1
XL201	M07-A4434-00	CRYSTAL 4.43361875MHz
	**N01-01A02-00	TUNER B/G SYSTEM (DIN SOCKET)
INTEGRATED CIRCUIT		
(011-10240-00)	001-01240-00	TA7680AP ALTERNATE KA2914A
(011-11420-00)	001-02420-00	TA7698AP ALTERNATE KA2154
	007-06020-00	L5630
	U01-02010-00	FUSE T2A
	V04-06001-00	FUSE HOLDER
CF102	X02-01001-00	CERAMIC FILTER SFE5.5MB
CF101	X02-02001-00	CERAMIC FILTER TPS5.5MB
	X01-03001-00	PIF SAW FILTER F1034
	Y02-01401-01	ULTRASONIC DELAY LINE ALTERNATE (Y03-01401-01) GLASS DELAY LINE
SINGLE JUMPER WIRE AWG22		
L2/L3=5MMX2 NON-TINNED	S02-B5000-EA	50MM BLACK
L2/L3=5MMX2 NON-TINNED	S02-B1419-EA	140MM WHITE
L2/L3=5MMX2 NON-TINNED	S02-B1210-EA	120MM BLACK
L2/L3=5MMX2 NON-TINNED	S02-B1116-EA	110MM BLUE
L2/L3=5MMX2 NON-TINNED	S02-B8000-EA	80MM BLACK
L2/L3=5MMX2 NON-TINNED	S02-B6000-EA	60MM BLACK
L2=5MM TINNED L3=7MM NON-TINNED	S02-D7001-IA	70MM BROWN
STRAND JUMPER WIRE AWG22 (UL1015)		
L2=5MM TINNED L3=7MM NON-TINNED	S02-E7002-EA	70MM RED
STRAND JUMPER WIRE AWG22 (UL1007)		
L2/L3=5MM TINNED	S02-D1310-EA	130MM BLACK

ELECTRICAL PARTS LIST

SCHEMATIC NO.	PART NO.	DESCRIPTION
CRT P.C.B. ASSEMBLY		
TRANSISTOR		
Q501, 502, 503	A01-C482D-00	2SC2482
SEMI-FIXED RESISTOR		
VR502, 504	C01-A202B-C0	200B (RVF8W01-201) G.B. — DRIVE
VR501, 503, 505	C01-A104B-C0	10KB (RVF8W01-103) R.G.B. — CUT OFF
CARBON FILM RESISTOR 1/4W +/-5%		
R501	D01-A151C-D0	150 OHM
R502, 506, 510	D01-A152C-D0	1.5 KOHM
R503, 507, 511	D01-A472C-D0	4.7 KOHM
CARBON COMPOSITION RESISTOR 1/2W +/-10%		
R504, 508, 513	D05-B472C-F0	4.7 KOHM
METAL OXIDE RESISTOR		
R505, 509, 512	D04-D153C-H0	15 KOHM 2W +/-5%
CERAMIC CAPACITOR		
C501, 503, 505	F01-C181F-C0	180PF 50V +/-5%
C502, 504, 506	F01-C102F-D0	.001UF 50V +/-10%
C507	F05-C472O-D0	.0047UF 1KV +/-10%
PCB501	G01-A709B-00	CRT PCB 90X70MM
SK501	V01-05001-60	PICTURE TUBE SOCKET
CRT GND	J05-01010-00	TAIKO CONNECTOR PIN 005P-2100
STRAND JUMPER AWG24 (UL1007)		
W501	S02-D2812-IA	280MM RED J1
W502	S02-D2814-IA	280MM YELLOW J2
W503	S02-D2810-IA	280MM BLACK J3
CONNECTOR ASSEMBLY		
PLUG Y	J03-0101A-00	SMK M-1 CONNECTOR 1 PIN WIRE TYPE: AWG24, STRAND, 1007 UL/CSA APPROVED L1=320MM, WHITE, L2=3.5MM TINNED
PLUG H	J05-0505A-00	TAIKO TLB-P V-TYPE CONNECTOR 5 PIN WIRE TYPE: AWG24, STRAND, 1007 UL/CSA APPROVED PIN 1 L1=320MM RED L2=3.5MM TINNED PIN 2 L1=320MM GREEN L2=3.5MM TINNED PIN 3 L1=300MM BLUE 2=3.5MM TINNED PIN 4 L1=300MM BLACK L2=3.5MM TINNED PIN 5 L1=320MM YELLOW L2=3.5MM TINNED

SCHEMATIC NO.	PART NO.	DESCRIPTION
CONTROL P.C.B. ASSEMBLY		
TRANSISTOR		
Q401, 403, 404, 405, 409	A01-A015E-00	2SA1015Y
Q701	A01-C815G-00	2SC1815BL
Q406, 407	A01-C815E-00	2SC1815Y
Q408	A01-F070A-00	2SK30A (FET)
Q402	A06-S002D-00	BSX20
Q410	A03-D400F-00	2SD400F
DIODE		
D404	B01-04270-00	27V ZENER
D402	B01-04056-00	5.6V ZENER (GZA 5.6Y)
D401, 701	B01-01148-00	1N4148
CARBON FILM RESISTOR 1/4W +/-5%		
R432	D01-A181C-D0	180 OHM
R433	D01-A331C-D0	330 OHM
R408	D01-A391C-D0	390 OHM
R401, 402, 403, 404, 405, 406, 407	D01-A821C-D0	820 OHM
R425, 428, 704	D01-A102C-D0	1 KOHM
R411	D01-A152C-00	1.5 KOHM
R413, 706	D01-A332C-D0	3.3 KOHM
R711, 712, 709	D01-A222C-D0	2.2 KOHM
R701	D01-A393C-D0	39 KOHM
R412	D01-A392C-D0	3.9 KOHM
R409	D01-A472C-D0	4.7 KOHM
R424, 423, 275	D01-A562C-D0	5.6 KOHM
R410, 207, 707	D01-A682C-D0	6.8 KOHM
414, 415, 416, 710	D01-A822C-D0	8.2 KOHM
R417, 418, 419, 427, 429, 431	D01-A103C-D0	10 KOHM
R426	D01-A223C-D0	22 KOHM
R420, 421	D01-A333C-D0	33 KOHM
R422	D01-A563C-D0	56 KOHM
R430, 703	D01-A105C-D0	1 MOHM
R206	D01-A273C-D0	27 KOMH
R705	D01-A683C-D0	68 KOHM
R702, 708	D01-A104C-D0	100 KOHM
VR203, 204, 205	**C04-E001B-A0	3 IN 1 10MM ROTARY P.C.B. TYPE VR (10KB + 10KB + 1KB)

ELECTRICAL PARTS LIST

SCHEMATIC NO.	PART NO.	DESCRIPTION
CERAMIC CAPACITOR		
C402	F01-C470F-C0	47PF 50V +/-5%
C405, 406	F01-C101F-C0	100PF 50V +/-5%
C409	F01-C403F-G0	0.04UF 50V +80-20%
C412	F01-C203F-G0	0.02UF 50V +80-20%
POLYESTER FILM CAPACITOR		
C403, 404	F11-M104H-D0	0.1UF 100V +/-10%
C701, 702	F11-M223H-D0	0.022UF 100V +/-10%
C704, 707	F11-M473H-D0	0.047UF 100V +/-10%
ELECTROLYTIC CAPACITOR		
C411, C703	F01-E106B-E0	10UF 10V +/-20%
C410	F01-E107B-E0	100UF 10V +/-20%
C706	F01-E476B-E0	47UF 10V +/-20%
	**G01-A809C-00	CONTROL P.C. BOARD (257 X 56.5)MM
L401	H05-0111A-00	PEAKING COIL 100UH
(PIC SS-12F44-G8) SW401	**K06-0102A-02	SLIDE SWITCH AFC
SW402, 403, 404, 405, 406	**K13-0101A-01	TACT SWITCH (SHAFT LENGTH 1.5MM) ALTERNATE (K07-0101A-01)
SW407, 408, 409, 410	**K13-0101A-02	TACT SWITCH (SHAFT LENGTH 6 MM) ALTERNATE (K07-0101A-02)
X401	M01-B4551-00	CERAMIC RESONATOR 455KHz
IC401	003-12400-00	M491BB1 SGS
IC701	003-20080-00	TDA2320A
LD401-403	P01-01010-00	LED RED TLR124
	P01-04010-00	LED TOSHIBA TLR321
LD701	P01-06010-00	TPS703
	**J05-0203A-00	TAIKO TL-25 V-TYPE CONNECTOR WIRE TYPE: AWG26, STRAND 1007 UL/CSA APPROVED PIN 1 L1=200MM BLACK L2=3.5MM TINNED PIN 2 L1=200MM RED L2=3.5MM TINNED PIN 3 L1=200MM WHITE L2=3.5MM TINNED

SCHEMATIC NO.	PART NO.	DESCRIPTION
	**J05-0205A-02	TAIKO TL-25 V-TYPE CONNECTOR WIRE TYPE: AWG26 STRAND, 1007 UL/CSA APPROVED PIN 1 L1=280MM BROWN L2=3.5MM TINNED PIN 2 L1=280MM RED L2=3.5MM TINNED PIN 3 L1=280 ORANGE L2=3.5MM TINNED PIN 4 L1=280MM YELLOW L2=3.5MM TINNED PIN 5 L1=280MM BLACK L2=3.5MM TINNED
	**J05-0212A-00	TAIKO TL-25 V-TYPE CONNECTOR WIRE TYPE: AWG26, STRAND, 1007 UL/CSA APPROVED PIN 1 L1=350MM BROWN L2=3.5MM TINNED PIN 2 L1=350MM RED L2=3.5MM TINNED PIN 3 L1=350MM ORANGE L2=3.5MM TINNED PIN 4 L1=350MM YELLOW L2=3.5MM TINNED PIN 5 L1=350MM GREEN L2=3.5MM TINNED PIN 6 L1=350MM BLUE L2=3.5MM TINNED PIN 7 L1=350MM VIOLET L2=3.5MM TINNED PIN 8 L1=350MM GREY L2=3.5MM TINNED PIN 9 L1=350MM WHITE L2=3.5MM TINNED PIN 10 L1=350MM BLACK L2=3.5MM TINNED PIN 11 L1=400MM GREEN L2=3.5MM TINNED PIN 12 L1=350MM BLUE L2=3.5MM TINNED

ELECTRICAL PARTS LIST

SCHEMATIC NO.	PART NO.	DESCRIPTION
COMPONENT NOT MOUNTED ON PCB		
L2001	H07-0801A-00	DEGAUSSING COIL
	K10-0202E-00	POWER SWITCH
	**L05-01002-00	LOUD SPEAKER 8 OHM 3 X 5"
	S01-A2220-0A	AC LINE CORD VDE TYPE 2.2M
	**T01-01340-00	COLOR PICTURE TUBE A34JAN40X02 (W)
SP	J05-0202A-01	TAIKO TL-25 V-TYPE CONNECTOR 2 PIN WIRE TYPE: WG24, STRAND, 1007 UL/CSA APPROVED PIN 1 L1=380MM L2=3.5MM TINNED PIN 2 L1=380MM L2=3.5MM TINNED
	J05-0101A-10	TAIKO TS-80 CONNECTOR 1 PIN WIRE TYPE: AW24, STRAND 1015 UL/CSA APPROVED L1=280MM BLACK L2=10MM NON-TINNED
	J05-0101A-02	TAIKO TS-80 CONNECTOR 1 PIN WIRE TYPE: AWG22, STRAND DOUBLE INSULATION, 1617 UL/CSA APPROVED L1=360MM BLUE L2=10MM NON-TINNED
	J05-0101A-04	TAIKO TS-80 CONNECTOR 1 PIN WIRE TYPE: AWG22, STRAND DOUBLE INSULATION 1617 UL/CSA APPROVED L1=360MM BROWN L2=10MM NON-TINNED

SCHEMATIC NO.	PART NO.	DESCRIPTION
HAND SET PCB ASSEMBLY		
TRANSISTOR		
Q801	A01-C815G-00	2SC1815-BL
Q802	A01-C120E-00	2SC2120-Y
CARBON FILM RESISTOR 1/4W /-5%		
R801	D01-A103C-D0	10 KOHM
ELECTROLYTIC CAPACITOR (SINGLE ENDED TYPE)		
C803, 804	F01-E107B-E0	100UF 10V +/-20%
CERAMIC CAPACITOR		
C801, 802	F01-C101FC-C0	100PF 50V +/-5%
PCB801	G01-B709E-00	TRANSMITTER PCB 54 X 98 (MM) GOLD PLATE
X801	M01-B4551-00	CERAMIC RESONATOR 455KHz
INTEGRATED CIRCUIT		
IC801	003-13200-00	M708L SGS
LD801, 802	D01-01110-00	INFRARED LED TLN105
STRAND JUMPER WIRE AWG24 (UL 1007)		
W801, L2, L3=3.5MM TINNED	S00-D4002-JA	40MM RED B+
W802, L2, L3=3.5MM TINNED	S00-D4000-JA	40MM BLACK B-

SPECIFICATIONS

TELEVISION SYSTEM	B/G for 625 Lines
COLOUR SYSTEM	PAL
CHANNEL COVERAGE	VHF_L Channel 2 to 4 VHF_H Channel 5 to 12 UHF Channel 21 to 69
INTERMEDIATED FREQUENCY PIF Carrier Freq.	 38.9 MHz
SIF Carrier Freq.	33.4 MHz
Colour Sub-carrier Freq.	34.47 MHz
Center Freq.	37.9 MHz
PICTURE TUBE SIZE	14"(37cm)
SOUND OUTPUT	2W (Max.)
SPEAKER	4"8ohm 2W
ANTENNA INPUT IMPEDANCE	75 ohm Unbalanced
POWER SOURCE	AC 220V 50Hz
POWER CONSUMPTION	60W(max.)
NET WEIGHT	10.6 Kg.
UNIT DIMENSION	388mm(W)×362mm(H)×370mm(D)

* Design and specifications are subject to change without notice.